<u>Claims</u>

What is claimed is:

- 1. A particulate adsorbent comprising particles comprising:
 - (a) at least one core comprising a transition metal-containing component comprising superparamagnetic materials, low Curie Temperature materials, and mixtures thereof, and
 - (b) a siliceous oxide coating on the surface of said core(s),

wherein said coating covers the entire surface of said core(s) such that said adsorbent particles have a transition metal leach value when present as 0.33 g dried adsorbent particles in 20 ml of 1N hydrochloric acid aqueous solution for 15 minutes of less than about 50 ppm metal based on the weight of said solution.

- 2. The adsorbent of claim 1 wherein said transition metal is selected from Group VIII transition metals and mixtures thereof.
- 3. The adsorbent of claim 2 wherein said transition metal-containing component is selected from the group consisting of iron, iron oxides, and mixtures thereof.
- 4. The adsorbent of claim 3 wherein said transition metal-containing component consists essentially of magnetite.
- 5. The adsorbent of claim 1 wherein said siliceous oxide coating contains hydroxyl groups on its outer surface.
- 6. The adsorbent of claim 5 wherein said siliceous oxide coating containing hydroxyl groups on its outer surface consists essentially of silica.

- 7. The adsorbent of claim 1 wherein said siliceous oxide coating contains externally accessible porosity.
- 8. The adsorbent of claim 7 wherein said particles contain at least about 0.2 ml/g pore volume measured by nitrogen BET method based on the total dry weight of said particles.
- 9. The adsorbent of claim 1 wherein said particles have a surface area of at least about 30 m²/g measured by nitrogen BET method based on the total dry weight of said particles.
- 10. The adsorbent of claim 1 wherein said core forms at least about 50 wt.% of said particles based on the combined dry basis weight of said core and said oxide coating.
- 11. The adsorbent of claim 10 wherein said core forms at least about 60 wt.% of said particles based on the combined dry basis weight of said core and said oxide coating.
- 12. The adsorbent of claim 1 wherein said core comprises one or more crystals having a crystal size of about 100 nm or less.
- 13. The adsorbent of claim 12 wherein said crystal(s) have an average crystal size of about 60 nm or less.
- 14. The adsorbent of claim 1 wherein said adsorbent particles have an average particle size of about 1-15 μm .
- 15. The adsorbent of claim 14 wherein said adsorbent particles have an average particle size of about 3-10 μ m.

- 16. The adsorbent of claim 1 wherein said core is a superparamagnetic material at room temperature.
- 17. The adsorbent of claim 8 wherein said particles contain at least about 0.2 ml/g porosity in pores having a diameter of 60 nm or greater as measured by nitrogen BET method.
- 18. The adsorbent of claim 16 wherein said superparamagnetic material has a remanent magnetism level of about 10 emu/g or less.
- 19. The adsorbent of claim 1 wherein said core(s) consists essentially of a material having a Curie Temperature of about -50°C. to 100°C.
- 20. The adsorbent of claim 16 wherein said superparamagnetic material has a remnant magnetism level of about 2 emu/g or less.